# SANDIA BULLETIN

Vol. 3, No. 8

## SANDIA CORPORATION, ALBUQUERQUE, NEW MEXICO

APRIL 13, 1951

# "The Great Leland" Has Put Down the E. C. Deutschle Is Wand To Work with Department 1134 Appointed New

Many years ago in Enid, Okla., Thurston, the famous magician, appeared on the vaudeville stage for a week run. In the audience every night was a nine-year-old boy. At the close of Thurston's Enid appearance, young Leland Sangster knew every trick of the great master and decided to become a magician himself.

Today Leland Sangster is employed by Sandia Corporation in Division 1134, and has behind him a fascinating story of his years on the vaudeville stage as "The Great Leland."

The years of professional appearances and skill in his former profession were recognized last week by his fellow magicians when they elected him president of Ring 90



Leland M. Sangster

of the International Brotherhood of Magicians in Albuquerque. Lee has been a member of the Brotherhood for 25 years and has performed at many of their conventions. Three years ago he appeared before the most critical audience a magician can find (fellow magicians) in Reno and was given high praise and an award for outstanding manipulations of billiard balls.

"The Great Leland" is a modest, soft-spoken man who bears a remarkable resemblance to the late Ernie Pyle. He looks back upon his years on vaudeville stage as "great fun" and has a warm memory of the

the Bulletin reporter by rolling a silk handkerchief into a small ball until it disappeared while telling the story of his days on the stage. Then he reached down without interrupting the fascinating tale, and pulled the piece of silk from behind his knee.

Leaving his one-man audience completely befuddled, Lee went on to relate that among the most enjoyable of his experiences were the 1,000 times he drove automobiles through heavy traffic while completely blindfolded. In addition to a quilted mask on his eyes, he wore a double black sack over his head.

This stunt brought a fee of \$50 during the depression years and he thrilled many thousands of midwesterners in his appearances. "I never had an accident," he says, "but there were some close shaves." They still talk about blindfolded driving up in Iowa and they are as puzzled now as they were then.

Many times in his career he has "sawed a woman in half," suspended a human body in mid-air, and the silver dollars he has made disappear are too numerous to be counted.

Lee lists among his friends of vaudeville days such famous men as Jack Benny and Eddie Cantor. Many times he was billed with the Cherry Sisters. Vaudeville had its ups and downs and at one time Lee left the stage to work for the post office department. He stayed with Uncle Sam for 15 years, but the call of the footlights finally became too strong and he returned to the Keith and Orpheum circuits.

In 1942 Lee put aside his \$10,000 worth of magician's paraphernalia and did war work at Collins Radio Company in Cedar Rapids, Ia. In 1948 he moved to Albuquerque and started working for Sandia Laboratory.

Lee, his wife, and four daughters live on Sandia Base. His oldest daughter, Claudia, is employed by Sandia Corporation as a computor at West Lab. Doreen will graduate from Highland High School this year and Patricia and Marilyn are students at Sandia Base school. Only Marilyn evidences an interest in the art of magic and she shows indications that she may follow in her father's footsteps.

Electronics today occupy Lee's working hours, but he is happy to have as his hobby the practice of sleight-of-hand which was his protession for so long. Lee has A. H. Spengeman, 4134, to assist him in the magicians' club leadership. Al has been elected secretary-treasurer of Ring 90.

"I've been in many states," says E. C. Deutschle, newly appointed manager of Department 4120, "and I like the state of New Mexico better than any of them." This statement comes from a native New Yorker who has been in the state for a year and is sure of what he is talking about. Emil has, just recently been appointed manager of the department reporting to J. A. Dempsey, secretary and comptroller. After living all his years in the

Empire State, he came to Albuquerque in March, 1950, and was followed several months later by his wife and son, Gregory, who is now 14 months old

While receiving his education in New York, Emil was employed first



E. C. Deutschle

by Consolidated Edison Co. and then by C. J. Tagliabue Manufacturing Co. He attended New York University night classes and in 1936 was graduated with a Bachelor of Science degree in Accounting. For the next two years he studied evenings in St. John's University Law School in Brooklyn.

In 1936 he started to work for Western Electric Company and was assigned to the Kearny plant in Kearny, N. J. In 1941 Emil entered the army as a private and was discharged in 1946 as a captain in the Corps of Engineers. During this period he had 18 months duty with the Third Army in Europe. After leaving the Army, Emil returned to Kearny where he remained until coming to Sandia Corporation where he headed division 4122 until the recent appointment.

An ardent golfer, this transplanted New Yorker says this is the greatest climate in the country for the sport. He tries to get onto the fairways at least once a week and has plenty of golf companions. But he does have difficulty finding a tennis partner and tennis is another of his favorite sports. Mrs. Deutschle was his regular tennis competition until young Gregory arrived and now she is too busy. Whenever Emil talks of his son, he has to break into praises of our New Mexico climate. His boy spends many hours outdoors in the sun and is "brown as a berry" and flourishing in health.

First Aid for Mathematicians ....



Machine Operator Margaret Matlack smiles while the Electronic Calculator computes arithmetical problems under her watchful eye. Margaret is one of five IBM operators in 1613. Others are Garrett Vick, Alice Montoya, Tom Herrill, and Lamar Johnson. L. E. Mahuron, John Stark, and Carol Orem are the programmers of the division who prepare the calculators to solve problems.

# **Complicated Electronic Calculators** Solve Complex Math Problems Easily

If mathematics is as foreign to you as the tongue of Cooch Behar, you'll love these "mechanical brain" computing machines found in Division 1613. Used in compiling statistical data, they can do arithmetical calculations more accurately and faster than an army of mathematicians wielding pencils. In fact, these machines, called Card Programmed Electronic Calculators, can accomplish in seconds what a man could not complete in days.

Henry Schutzberger heads the division using these machines and L. E. Mahuron is in charge of the operating section. The calculators are manufactured and made available to industry on a rental basis by International Business Machines Corporation. Sandia Corporation, with three calculators, is using more of these machines than any other company in the nation at this time.

Understandably, personnel of 1613 have shortened the title of the equipment from Card Programmed Electronic Calculator to "CPC." They found they could complete some problems on the calculator almost before they could pronounce the title bestowed by IBM.

Operation of the CPC is explained by Hank Schutzberger as follows:

Each machine consists of four units re interconnected by cables. Problems are introduced into the first unit, the accounting machine, on data cards containing numbers to be used in the arithmetical calculations. These cards are inter-filed with other cards which tell the CPC what to do with the figures. Cards enter the machine at the rate of 150 per minute. This unit will print the answers to the problems if desired. It also may be adjusted so that each step in the calculations is recorded on paper as well as the final answer. Computing is actually accomplished in the second unit, the electronic calculator, a complex piece of equipment with 1,300 vacuum tubes. This unit is capable of doing 200 to 300 multiplications or divisions or 3,000 to 4,000 additions or subtractions per second. This speed is never actually attained, however, for production is controlled by the rate at which the accounting machine can receive the punch cards. Another unit of the machine is the storage medium known to the operators as the "ice box." The direction cards instruct the system to store or remember certain tabulations and then return them to the accounting machine at the proper time to be used in a calculation.

savings are measured in time only, the ecenomy of the instruments is tremendous:

The summary punch, the fourth unit, punches answers to the problems on IBM cards and the operation is complete.

Basically, the machines do the four arithmetical operations-addition, subtraction, division and multiplication, but long sequences of combinations of these operations make easy the computation of square roots, trigonometric functions such as sine and cosine calculations, and any other function that may be represented by a series of terms.

One problem recently computed by the device involved 300 mathematical steps utilizing seven decimal places. The operation was completed in 55 seconds. It is estimated that an experienced operator with an electrical desk calculator would require at least eight hours to complete this same set of operations.

A new machine is being developed by IBM which, by using magnetic tape instead of punch cards, will complete problems 10 to 100 times as fast as the CPC.

It would be difficult to determine how many mathematicians would be needed in the division to do the work these calculators turn out daily, but if

many happy, strenuous days.

With the appearance of a suave man who has astounded thousands of people, Lee completely confused



THE GREAT LELAND PREPARES TO DRIVE a car while completely blindfolded. This old photograph of Leland Sangster is of one of his many appearances in his special act in the Midwest. Lee, now with Sandia Corporation, was elected president of Ring 90 of the International Brotherhood of Magicians last week.

## **Toastmasters Heard On Radio Program**

Three Sandia Toastmasters appeared on a 15-minute radio program Monday night. The program consisted of a discussion of the advisability of drafting 18-year-olds, and was one of a series of such discussions regularly presented on KVER by the various Toastmasters clubs in Albuquerque.

Participating in the program were Randy Parsons, 1251, Charles Runyan, 1220, and Ted Sherwin, 3125.

The division offers its services to any Sandia Corporation department having an involved or recurring mathematical problem. At the present the machines are running 10 hours a day, six days a week on high priority problems, but personnel of the department will discuss and assist in solving any problem "except income tax." The operators do admit that even on the long form the tax could be computed in less than 20 seconds.

## Radio Code Classes Given **On Base Twice Each Week**

Regularly scheduled code classes are being held twice each week by Sandia Radio Club members in the club's building T-317 on 'H" Street. Classes are each Tuesday and Thursday evening under the instruction of Frank Irwin, 1713, and Lt. Paul Arndt, both amateur radio operators.

Basic and advanced instruction is offered and employees of Sandia Corporation and their families, as well as other Base personnel, are invited to attend the classes. There is no charge for the instruction.

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Speech on Measurements

Scheduled for ISA Meeting Claude M. Hathaway, president of the Hathaway Instrument Company

of Denver, Colo., will be guest speaker at the April 16 meeting of the Instrument Society of America,

John A. Southwick, 1282, chairman of meetings committee has an-

nounced. The meeting will be held at 8 p.m. in Hadley Hall at the

Mr. Hathaway, whose topic will

be "Specific Measurements," is the

author of a number of papers on

oscillographs, strain-analysis instru-

ments, and kindred topics. and taught electrical engineering at the

University of Colorado, his alma mater, for several years. In 1938 he established his own instrument com-

pany in Denver, producing a variety of specialized instruments such as

the "multielement optical flight rec-

ord," a miracle of suit-case size

efficiency which makes unnecessary

the work of tons of separate record-

ing devices used in airplane testing.

All interested are invited to attend.

University of New Mexico.



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#### Robert S. Gillespie, Editor

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> Telephone Ext. 25253 ~2

## Our Relations with the Public ...

No business or organization can decide for itself whether or not it wants "public relations." It has them in spite of itself; therefore, its task and, indeed, its obligation, is to make them the best possible. Public relations are the sum of all that the persons connected with a business say and do in public.

Good public relations, then, result from a combination of (1) sound operating principles, (2) a record of accomplishment, and (3) a knowledge of these policies and accomplishments, not only by the company's own personnel but by the people of the community in which it is located.

It is obvious that Sandia Corporation can't say much about the work we do here, but within the limits of security and propriety an effort is being made to let the people of Albuquerque know in a general way how we fit into the national defense and atomic energy program. That's why Sandia Corporation released this week, with the concurrence of the AEC, a picture story about the development of Sandia. People instinctively fear what they do not understand, and fear leads to dislike. We want Albuquerque to know us better.

The impact of a new project like ours on a community of this size is not one to be taken lightly, and it is no wonder that many older residents here have viewed the growth of the laboratory with some misgivings. True, we are adding vast sums of money to the community, and contributing materially to the growth of the city, but this very growth places staggering demands on the community for many services including public utilities, streets, schools, fire, and police protection.

Now, at a time when we are expanding our working force and stepping up our schedules to meet urgent defense requirements, it is more important than ever that we have the full support and cooperation of the community and the public in general. Let us all strive to be good citizens as well as capable workers, and let us all do our part to "sell" the laboratory through the development of enduring good will. Until the full story of our accomplishments can be revealed we must rely entirely upon the confidence of the public that we are doing the best possible job in the least possible time, and with a minimum interruption of the normal peacetime economy. What our neighbors and business friends think of us as individuals will determine the community's attitude toward the project as a whole.

## **Coronado Club Schedule**

Saturday, April 14-Informal dance. Sunday, April 15-Buffet dinnerdance.

Friday, April 20-Square dance with band.

Saturday, April 21-Informal dance. Tuesday, April 24-Square dance instruction.

Wednesday, April 25-Bingo

Thursday, April 26-Bridge party. Saturday, April 28-Shipwreck party.

Sunday, April 29-Buffet dinnerdance.

## Weddings and Engagements

Sandia Engineers **Panel Speakers at Engineer Meeting** 

Plans for unification of the engineering profession will be discussed at a dinner-meeting of The American Society of Mechanical Engineers, Wednesday, April 18, at the El Comedor De Soto.

Panel speakers will include Glen Fowler, 1600; L. A. Hopkins, 1270, and Don Bliss, 2112-1.

Dinner will start at 7 p.m. and the cost is \$2 a plate. Reservations should be made in advance with C. H. DeSelm, ext. 21152; Lee Toliver, ext. 7253, or E. C. Rightleg at the University.



DO YOU SUFFER FROM TRISKAIDEKAPHOBIA? Helen Nielson, 2462-2, prescribes the perfect treatment for that ailment which is often found on days like this. Helen really isn't superstitious, but we think you'll agree this photograph is a pleasant reminder that this is Friday the Thirteenth.

# **AROUND THE DEPARTMENTS**

2210 held a department luncheon at the Coronado Club March 30 welcoming Rosemary Trinkle and bidding farewell to Doty Constant who is leaving for "Jolly Old London Town." Doty is taking a secretarial position in England.

Personnel of 2221 are much relieved now that Jack L. Miller's child is improving. The little boy was sick with the measles and then pneumonia and had to be put in an oxygen tent. All of 2221 helped Tack worry.

Ralph and Ruth Larsen and Al Rizzoli went to Calexico. Calif., last week end for a California State Pistol Match. Ralph and Al, both of 2123-1, are both marksmen with the pistol and Ralph took third place in the Rocky Mountain Regional Pistol Championship held at Denver in July, 1949. Ruth, Ralph's wife, works in 2461-3.

Phyllis Perkowski is now working in the 2100 organization, having transferred from 2250.

Inspector James Lossing, 2450, who suffered a broken pelvis when he fell while descending from a tower, is recovering at Osteopathic Hospital in Albuquerque.

Paul Snyder, AEC, left for the Army last week and Gerald Prom, AEC, will be leaving soon to join United Airlines as a pilot.

Nancy Mally Brush, 3160, is taking her new duties as a housewife seriously. She plans to retire to Cedar Crest and raise a few chickens and a few strawberries. Billy Todd, 4222, is going to take Nancy's place.

Charlotte Felchman has returned to New Mexico after an extended visit in New Jersey. New Jersey is Charlotte's home state and she evidently had a nice visit.

C. H. DeSelm, 1280, was initiated into Pi Tau Sigma as an honorary member April 4 at a dinner held at the El Comedor De Soto. Pi Tau Sigma is a mechanical engineering fraternity and Mr. De-Selm's initiation consisted of a short talk to members on "The Engineer's Education and His Job." Other Corporation men attending the dinner were R. A. Bice, 1210, and Bill Dennison, 1283.

Dick Richards, 1282, and his family are getting pretty well settled in their new home. It's located in the Inez Addition.

Division 2472 is very happy to have Donald Harrison, William Milnes and E. C. Pena join their organization.

The Spring formal dance held last Saturday night at the Coronado Club was reported as a big success. Flowers used to decorate the ballroom were given by Bari Floral and added a colorful touch.

Carl Zimmerman, 2112, is a new addition to the German band as a drummer. There are now six members in the band. Carl used to be in vaudeville and has been a drummer in many eastern dance bands.

Mr. and Mrs. Gordon King are the proud parents of a boy born the latter part of March. Gordon is in 1514-2.

Bob Sowell, 1514, is back to driving his old Ford. His wife, who teaches school in Oregon, came to

Robert Schmuck and Harry Bodenschats said goodbye to 3150 last week now that their clearances have been completed. Bob left to go to 4230 and Harry to 2330.

Earle George, 1714, returned recently from vacation, most of which was spent in Alamogordo, N.M. On the way back from there, Earle's old 1939 Ford expired. Fortunately the expiration took place directly in front of the General Motors dealer in Belen so now the Georges may be seen galavanting around in a beautiful 1949 green four - door Chevrolet.

Art Machen, 1710, spent last week on his ranch in Alameda. It wasn't much of a vacation, though, as Art was hard at work on hundreds of spring chores that have to be done on any ranch.

Max Weber, 1714, is recuperating nicely from an operation performed early this week for the removal of a tumor.

Tillie Wheeler, 2461-3, is having quite a struggle with her new 1951 Buick Special. This is her first experience with a car and she is finding that driving a car isn't as easy as it might look.

The girls of 2461-3 were pink and blue conscious last Wednesday night when they honored Margaret Northcutt and Ida Maedowling with a stork shower. It was a surprise affair held at the home of Lucille Montoya, 612 N. Broadway.

Department 1240 has two April Fool babies. Mr. and Mrs. Charles D. Lantz had a daughter, Patricia, weighing 7 lbs. 51/2 oz., and Mr. and Mrs. Walter Hanson also had a daughter, Sally Marie, weighing 8 lbs. 14 oz. Charles is in 1242 and Walt in 1241.

The announcement of Helen Louise Trainer's engagement to John C. Patchell was made Easter by Mr. and Mrs. Charles R. Trainer. Helen is employed in 2222, and her fiance works for the Southern Union Gas



Trainer

Company. Both are graduates of The Albuquerque High School. couple plan a June wedding.

Patricia Claire Niggel, 4131, and Sgt. Bernard John Wessel will be married April 20. The couple have made plans for a honeymoon in Chihuahua, Mexico, and will make their home in Albuquerque upon their return.

Corine Gaultney, AEC, and Leroy Dickens were married March 24 at the Bel Air Baptist Mission. Leroy is a student at St. Joseph's College.

An open discussion period will follow the panel speeches and all engineers are invited to attend.

Men Invited to Sing with New Base Glee Club

Formation of a male glee club is in progress with the first rehearsal scheduled for Friday, April 13, in the Coronado Club at 7:30 p.m. All men who are interested in participating in the new chorus are requested to contact D. F. Robinson, 1243, ext. 24243. Singers with previous glee club experience are in special demand, but anyone interested in singing, even those without vocal training, are invited to attend rehearsals. Membership will be open to all men employed on Sandia Base. Terry Riggin, 1243, will direct the glee club. Terry served for seven years as director of the Martinnaires, a chorus sponsored by the Glenn L. Martin Company of Baltimore.

Mrs. Irene Palmer, 3160, is still at home on sick leave but will soon be back on the job.

Everyone feels very sorry for Harlan Lenander, 1111, who is down with the mumps.

West Lab welcomes Richard Claafen to 1120 and Dale Mortiz to

It's the talk of West Lab-four of the 4211 personnel are sporting new cars. Art Covne, Ray Allen, Roy Terry and George Burnside. Then there's Ilba Baldwin, 1100, who wasn't going to be outdone.

R. J. Dill, 2242, and family were on vacation last week enjoying scenic spots of the west coast and Phoenix.

Jack Mafit, 3152-1, left last week for a two-week recruiting tour to Wisconsin. He will meet John Risley, 2123, in Madison and then travel to Milwaukee to join T. T. Robertson, 1251.

New Mexico over the Easter holidays and took the new car back with her.

Division 1514 extends a welcome to William L. Neeves. Bill came to this part of the country from La Jolla, Calif.

Bennie Garcia, 2231, was called by Selective Service last week and his co-workers wish him the best of luck.

Homer Baldwin, 3152-1, received his new 1951 Plymouth in the nick of time. The previous day, he ran his Chevy into the rear end of a car that had a sturdy trailer hitch and the grill on the Chevrolet was somewhat ruined.

Major J. E. Devine, who is assigned with 1243, reports that his three children are now happy. The Devines had a sedan and the children, who enjoy sleeping in the car, found it most difficult. Now they have a Pontiac station wagon and on a recent trip to Iowa, there were three very comfortable sleeping tots.

Division 1243 extends a great big welcome to Walt Dalby, a transfer from 2110, Deane Swanton, from West Lab, and Jacque Quinn, a native of Albuquerque.

Terry Riggen, 1243, is scouting for male singers to form a Base men's choir. Terry directed a male choir at the Martin Aircraft Corporation when he worked there. Anyone interested in singing should contact Terry on ext. 24243.

Glenn Simpson and Robert Blount, both of 4134, have information on installing a sprinkler, the easy way. But, after putting one in Glenn's front yard, they learned the hard way.

Personnel of 4134 are very happy to see Aileen Moore back on the job after a long illness.



Three Sandia Corporation mountain climbers scaled the west slope of the Sandia Mountains recently. They reached the top and all three men were in a picture taken without the aid of a delayed action shutter camera. The trick was turned by the cooperation and skill of a retouch artist and here we have Jack Hart, Ernie Peterson, and Ed Domeier, all tired but smiling, pictured together at 10,678 feet above sea level.

# Try Scaling the West Slope of The Sandias for a Sunday Outing

For a day of recreation, try climbing the west face of the Sandia Mountains near Albuquerque. Start from the Juan Tabo area and go up to the marker which is at the highest point of the mountains, commonly known to local people as "the crest." That's the Sunday exercise chosen by E. J. Domeier, J. C. Hart, and E. C. Peterson, all of 3210, who safely made the ascent and descent in one day and reported they enjoyed it.

The three Sandians took the La Luz trail which starts at about 6.400 feet altitude and takes climbers through La Cueva canyon's beautiful pine forests and up some precipitous cliffs to the top, 10,678 feet above sea level. The easy way to get to the top is to drive a car up the east slope, but this time of year the upper portions of the road are deep under snow. Anyway, it is the west slope which is the challenge to mountaineers.

The slope has been tackled by many climbers and some have completed the undertaking and others have given it up. The three Sandia men completed their climb on the second attempt.

Their first try a few weeks ago was thwarted when clouds moved in and they lost the trail while skirting the edge of a rock slide which covered the path.

A week later the three again undertook the climb and in about five hours completed the ascent. Weather was good this trip and the snow had thawed some, but was still as much as five feet deep in crevasses and protected areas.

The grade is extremely steep most of the way and in some spots is just about perpendicular. There are ample opportunities for serious falls, but the Sandians scaled the face without serious injury. Jack Hart twisted his knee and turned an ankle, but was able to complete the climb.

When the climbers reached the

## SANDIA BULLETIN

## Toastmistress Club Initiates New Members

Initiation of new members into the Sandia Base Turquoise Toastmistress Club was held Wednesday, April 11, at the dinner meeting in the Officers' Club. Mrs. H. C. Biggs was initiating officer and those initiated were mesdames C. L. Lindquist, E. G. Miller, and A. J. Kruz.

Toastmistress for the meeting was Mrs. G. L. Morrisroe and Topicmistress was Mrs. T. J. Jorgensen. Mrs. W. E. Caldes, Mrs. A. L. Dyer, and Miss Beth Krajovic were speakers.

Mrs. D. B. McCarthy was first place winner at the district speech contest held in Las Vegas, N.M., last week end. She will now represent this district at the Regional Toastmistress Convention to be held at Bakersfield, Calif., May 26-27. The winner there will represent the Southwest at the International convention to be held in Denver. Mrs. McCarthy's speech was entitled, "Poor Little Bright Child."



Irene L. Heck, 2461-3, is displaying her rag dolls which she recently made. The dolls have brown curly yarn hair, with embroidered eyes, noses, mouths, and even freckles. They stand about 14 inches tall and Irene says she prefers to stuff them with worn-out nylon hose although these particular dolls are filled with cotton and sawdust. Irene started making rag dolls in 1948 purely for her own amusement, and then she made them for her nieces and nephews. Now she has a long list of orders which she says will take her quite a long while to fill. Harriette Shelton, 2111, was the recipient of this pair.



The smarter man

Lives more days.

No matter how long you've been

here or what your job is, don't take

chances. Help others be safe on

their job-for your sake as well as

theirs.

Safety's a good thing for all of us.

Don't drive by guesswork. The morning and evening sun is blinding. Maintain visibility, keep your wind-

# When You Reach Retirement Age Will You Be Financially Independent?

Popular songwriters are not often considered psychologists, but there is one of them who might qualify. He is the fellow who wrote the words: "I've got a wonderful feeling; everything's going my way."

He's right, for we do have a wonderful feeling when everything's going our way. Fate appears to take a hand occasionally and bring good fortune into our lives. There have been occasions of unexpected oil wells, rich uncles, radio program jackpots, or a winning Irish Sweepstakes ticket.

But not many of us have such good fortune. For most of us the "fortune," or lack of it, is usually the result of planning—or lack of it. Most people are "fortunate" because they take opportunity by the hand, lead it through the years and then bring it in the front door when needed.

You may bring opportunity or good fortune in your front door some day by participating in the Sandia Corporation Retirement Plan which is open to any employee. The plan, underwritten by the Prudential Insurance Company, guarantees an income when vour day for retirement arrives. Each month the Corporation deposits the employee contributions, and its own contribution of nearly twice what employees contribute, with Prudential. You must meet certain requirements to qualify for retirement benefits, but you never get less than what you have contributed. plus interest.

The Corporation has no definite age for retirement, but the Prudential Insurance Co. plan puts normal retirement age at 65. Suppose you are 25 years of age when you start participation in the plan. Also suppose your average annual salary during the years of your employment until the age of 65 is \$3,500. Your contribution for each year will be three per cent of the first \$3,000 of salary and six per cent of all you earn above \$3,000 each year. Your average annual investment in the plan will be this:

Total annual investment... \$120 At the age of 65 you would have been investing in the plan for 40 years. If you chose to retire you would receive annual payments equal to one-third of your total contributions. In this example your contributions over the years would be 40 (number of years) x \$120 (annual contribution) which is \$4,800. You would receive one-third of this or \$1,600 which would be paid in 12 monthly installments of \$133.33 each, and a like amount each year for the rest of your life.

This check, supplemented by your government Social Security benefits, and any savings and investments you might have, will be your income and security for your years of retirement. If you lived for only 10 years after retirement you would receive \$16,000, There are other features of the plan which make it even more attractive.

The plan and all the benefits you have accrued under it may be transferred to any company which might assume the operation of the facilities now operated by Sandia Corporation.

Your contributions are based on the percentage method of payment and this automatically adjusts your contributions to meet changes in salary.

After your retirement and upon your death, your beneficiary will receive a minimum of one year's annuity as a death payment. In the example used here the beneficiary would receive \$1,600 in addition to whatever payments you had received.

You may designate the beneficiary. It may be an individual, your estate, or an organization and you may choose one of several methods of payment.

Of great importance is the fact that you cannot lose. No matter what action you take, or what circumstances may arise, the minimum payment you will receive will be equal to the amount of your contributions plus interest.

Further information concerning your retirement plan may be obtained from C. W. Campbell, Building T-301, ext. 21252.

## The Typographic Error

The typographic error

- Is a slippery thing and sly; You can hunt until you are dizzy,
- But it somehow will get by. Till the forms are off the presses,
- It is strange how still it keeps; It shrinks down into a corner And it never stirs or peeps.

The typographic error

- Is too small for human eyes,
- Till the ink is on the paper, When it grows to mountain size.
- The Editor stares with horror, Then he grabs his hair and groans; The copy-reader drops his head
- -Upon his hands and moans.

The remainder of the issue May be as clean as clean can be, But that typographic error Is the biggest thing you see.

-The Blue Bell.

## Square Dance Scheduled For First, Third Friday

The Coronado Club has announced that the first and third Friday of each month have been reserved for square dance night so all you enthusiasts mark your calendar and don those togs for the dance. April 20 at 8:30 is the next scheduled dance.

Parents of pre-school children will have their questions answered by Miss Florence Schroeder, of the University of New Mexico Home Economics' Department, April 24, at 8 p.m. in the Kindergarden Build-

top, they took pictures of the marker as proof of their accomplishment, ate some lunch and started down.

The descent was nearly as strenuous as the climb up. They likened one portion of the trip down to a 2,000 foot ski run and it was there Jack received his turned ankle. In three hours they were again at the foot of the mountain and after posing for a "near-exhaustion" picture at the trail's end, they returned to Albuquerque by car.

None of the three lays claim to being a highly skilled mountain climber. Jack reports this is his first try at climbing, not counting hiking up and down in the Ozarks. Ernie Peterson is not a complete novice at mountaineering, but this is his first time "for the fun of it." Ernie's previous climbing experience was in the Solomon Islands and Okinawa when there was more serious business at hand. Ed Domeier has had several climbs on some of the higher peaks in Colorado.

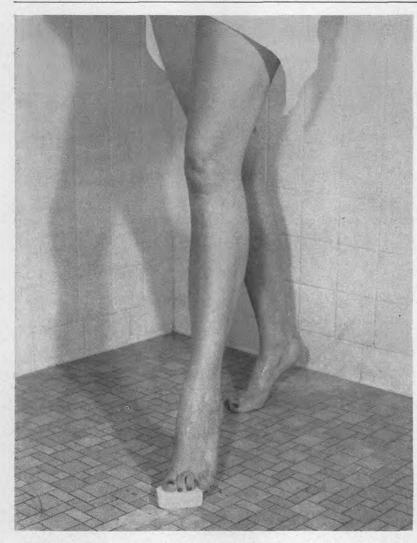
In addition to completing the near mile-high climb the three may well be proud of another accomplishment —all of them reported for work the following day. sheild clean.

or nearly four times the total amount you had contributed.

ing. An invitation is extended to all interested in pre-school children.



SANDIA SQUARE DANCERS do a Grand Right and Left at their regular dance in the Coronado Club. The dancers get together the first and third Friday of each month and have plans to dance to the tunes of a live band in the near future. Twice a month the club offers square dance instruction on Tuesday evening. Anyone interested in joining the square dance group may call Doc Rehbeck, 24157.



Bathtubs and showers are dangerous enough without the hazard of soap underfoot. Broken arms or legs are sometimes the result when the purchase of a suitable non-skid mat is postponed. Without this protection members of families are exposing themselves to possible serious injury.

## Home Sweet Home Isn't the Safest Place on Earth

It's the same old story year after year—too many people are injured in accidents around the home. Many words have been spoken and many articles written on the simple rules which promote safety off the job. Evidently many people have completely ignored this information. Off-theplant injuries yearly keep thousands of Americans from work.

Causes of injuries at home are numerous. Bath tubs, showers, dark rooms and stairs cause most of the falls. Moving furniture and lifting heavy articles in yardwork are blamed for a large portion of the back injuries.

Humans don't have non-skid soles on their feet. We are not able to see in the black of night. Nor are we gifted with super-human strength. We cannot fall down stairs without running the risk of serious injury.

Knowing all this, why do we ignore the circumstances that so often result in a painful injury?



Keeping a stairway clear is one way to practice safety around the home. High heels, poor lighting and waxed steps still cause accidents which could have been avoided with a little forethought. Here Beverly Harbison, 2113-1, comes down a stairway confidently, having verified in advance the condition of the stairs.





Don't pity the poor ostrich which sticks his head in the sand to avoid danger. Some people seem to feel safe moving in the dark with one hand outstretched. If anything, the ostrich is more nearly safe. Turn on the light or use a flashlight, or even matches, but don't grope around blindly.



Lifting furniture has brought about many backaches, sprains and discomfort due to ignoring safe rules for lifting. Granville Mann, who has considerable work in lifting and moving furniture at the Coronado Club, demonstrates how to lift properly. He is using his legs rather than his back to move the weight upward. Your wife may be a furniture mover!

"I stepped on a nail," is a too-common statement heard from a limping or disabled householder. Be on the safe side; clinch or remove all nails on stray boards and eliminate this type of hazard.

## APRIL 13, 1951

# Unusual Features Are Incorporated Into Newly Completed Building 892

Many of the latest developments in architectural and construction engineering have been incorporated into Building 892, known as the new Road building, recently occupied by Sandia Corporation. Designed for efficient accommodation of varied functions, the building provides efficient working conditions.

One of the most interesting features of the structure is the air conditioning which is operated by five large blower units. The system is so designed that the side of the building in the sun in the summertime receives more cool air and in the winter the shady side will receive more heat. This effect is made possible by a zoning plan in the building with each of the blower units forcing air into one zone.

Filtered and washed air is blown into the building and the humidity of the air is controlled by the temperature of the water used as a wash. The cooler the water, the lower will be the humidity of the air. Filtering is actually a twostep process with the air first going through a dry filter and then through an electrostatic filter. In the summertime the air is cooled with a 450-ton refrigeration machine. This unit is steam operated and in the winter the steam is used to heat the air.

Air pressure inside the building is slightly higher than atmospheric pressure outside. If there are any leaks in the windows or doors, the air will escape outward and dust will not come in. None of the building's windows may be opened.

The zone control also makes possible a difference in temperature and humidity in the various office, laboratory and factory sections. In addition, each room has individual thermostatically controlled heating units.

Lighting facilities in the building are scientifically designed so that at every point there is more than the minimum of light necessary for the work being performed. Fluorescent lighting is used and the lights are the instantaneous lighting, non-glare type.

Floor covering material in the building was carefully selected. In office and laboratory sections a light colored asphalt tile is used because of its light reflecting qualities, walking ease, durability and appearance. In the heavy duty areas concrete floors with a hardened surface are found. The surface of the concrete is as hard as marble and will withstand pressures of 6,000 to 7,000 pounds per square inch.

Another interesting feature found in the building is the clock system by which all clocks are synchronized to the second by a master clock located in the security guard office.

Insulation in the building was installed as the concrete wall panels were poured. The insulation and walls were integrated into one piece in the process. All ceiling areas and high bay areas in the building are acoustically treated with steel pans backed with glass wool. Three types of electrical conduits were placed in the building when it was constructed. Wires for the illuminating facilities are in one, power lines are in another, and communications lines are in the third.



Security Inspector Paul Littell checks the badge of Henry H. Dancy, 2241, in the entrance of Building 892. Guards are on duty at the building's entrance at all times.



At the controls of the air conditioning unit in Building 892 is Burt Light, 2411. The giant piece of equipment has capacity to manufacture 450 tons of ice per day. The unit is steam powered and in wintertime the steam is used to heat the air being circulated through the building.

clinic room and laboratory are in use and a nurse is on duty during all working hours.

The building is protected from fire by an elaborate alarm system. If a fire should start, the system alerts the security guards, tells the fire department the location of the blaze in the building and turns on the sprinkler system in that area. All of these operations occur simultaneously.

An annunciator system has been installed and a person may be called from any part of the building. The system also will automatically give an evacuation signal. Another alarm system notifies security guards of the unauthorized opening of any

## Sandians Enjoy Spaghetti Dinner at Gordon King's

Gordon King's attractive new home was the talk of the evening, Friday, March 30, when Division 1514 personnel and their families were guests of the Kings for a spaghetti dinner. Assisting Mrs. King as co-hostesses were Mrs. R. E. Fisher and Mrs. J. C. Russell.

Gordon constructed his entire home which is located at 3524 Luke Circle. Woodworking is his hobby and the interior cabinets and woodwork are good examples of his artistic ability along that line.

## Notice

# Expert Recalled from Retirement Still Finds Time for Many Hobbies Dr. C. N. Hickman

## Is Archer, Magician And Gadgeteer

"Apparently when the bug bites you, it bites hard, and that's what happened to me," says Dr. Clarence N. Hickman, 1400, in referring to his hobby of archery. The technique of using the bow and arrow has been an interest of Dr. Hickman's since he was five years old when he shot fish in the brooks of Indiana with a bow and arrows fashioned from umbrella stays.

Dr. Hickman, a retired Bell Telephone Laboratories man, has contributed a great deal of technical knowledge to the development of military weapons, but has also found time to delve into the finer points of archery, his primary hobby, as well as magic, photography, mechanical "gadgeteering," and fishing.

Dr. Hickman's first technical interest in archery was in 1929 when he worked on measuring the velocity and acceleration of arrows. He found that no one had ever done anything along that line and the Journal of the Franklin Institute that year published his first paper on the subject.

In 1928 he attended a meeting of the Metropolitan Archery Association which took in the area around New York. Shortly afterward he organized the Long Island Asociation and started a group in his own community of Jackson Heights.

In 1930 when he joined the technical staff of the Bell Telephone Laboratories, he organized the Bell Laboratores Archery group. This archery activity continued into 1940 when engaged in research work for the government which was so pressing that he had to give up archery temporarily.

From 1946 to 1947 he was president of the Bell Laboratories Archers and participated in all phases of the archery activities. He designed the club archery emblem.

'In 1948 Dr. Hickman co-authored the book, "Archery: The Technical Side." It was during the same year that he reached the peak of his ability as a bowman. He made the highest Olympic score in the city of New York and he hasn't been able to do it again.

In 1950 he attended the National Archery Tournament in Lancaster, Pa., where he made six goals ("bullseyes" to you) in the contest and was awarded the six-goal pin. At that same meet he received another honor—the J. Maurice Thompson medal of honor.

Dr. Hickman holds a number of patents, one of which is for backings for bows. He was unable to find a manufacturer who could produce the product and before he knew it, he was in the backing business. The backings were made of silk at first and later replaced by Fortisn. He recently closed this business.

The versatile bowman not only

writes about archery, but has what he thinks is the largest private collection of old books in this country on the subject. He has over 500 volumes, many of which are very rare.

Dr. Hickman has always been a very active man. Between terms at Winona College, Winona Lake, Ind., he clerked in clothing stores, and taught mathematics, physics, and German in an Indiana high school. He was graduated from Winona in 1914 with an A. B. degree, majoring in mathematics and physics. In 1918 he received his M. A. degree and in 1922 his Ph. D. from Clark University, Worcester, Mass.

In 1940 he resumed his work in the development of weapons which he started during World War I. He was loaned by Bell Telephone Laboratories to the National Defense Research Committee. For his service with the government, he received the Presidential Citation (Medal for Merit) and a certificate of appreciation from the War Department in addition to letters of commendation.

Attesting to the fact that he is an unusually active scientist are his more than 40 published books and articles. He holds approximately 100 patents which are registered with the United States Patent Office.

Another of Dr. Hickman's' hobbies which started when he was a small boy is practicing the art of magic. Following his graduation from high school, he took it more seriously and went on the road as a magician. He is a member of the Society of American Magicians, and can still perform some mystifying feats of legerdemain.

The man of many hobbies says that when he retired from Bell Laboratories he was offered various positions with attractive salaries, but refused them all since he merely wanted to "work" at his hobbies. When the Korean War broke out, however, he was asked to return to work by D. A. Quarles, vice president of the Bell Telephone Laboratories, and he responded to the call to duty. Dr. Hickman agreed to come to Sandia Corporation on a consulting basis, but he says it was purely for patriotic reasons since he had become so engrossed in his hobbies. Mrs. Hickman wasn't pleased at the thought of moving, he says, but now that she is here, her opinion of the southwest has changed and she admits she likes it "a thousand times as much as she had expected to."

Dr. Hickman, now a regular employe and no longer on a consulting basis, says that if he has to work, even though he still prefers not to, he can think of no place he could be any happier than at Sandia.

And he adds that he is anxious to take advantage of the New Mexico fishing. No longer relying on his bow and umbrella stays, he now uses the conventional rod and reel and has them all ready for the opening of the fishing season.

Adding versatility to the building is the fact that office and laboratory areas are designed as large rooms which may be subdivided by movable steel partitions into smaller offices and rooms without changing the lighting and air conditioning facilities.

Special exhaust systems have been installed in the building where there are painting rooms or where toxic or inflammable materials are used.

Bridge cranes spanning the high bay rooms facilitate heavy moving, and interconnecting monorails provide additional means of handling heavy materials.

A suite of rooms in a central location houses the first aid facilities. A reception room, doctor's office, door in the building.

All of these features, plus many others, help make the building efficient and practical and at the same time a pleasant place in which to work. Many similar features have been incorporated in other permanent buildings now in use or under construction in the Tech area. A meeting to elect officers for 1951-52 bowling season will be held next week. All team captains and team members are invited to attend and as soon as a meeting time and place can be determined, the team captains will be notified who in turn can notify the team members.



NEW OFFICERS OF SANDIA TOASTMASTERS CLUB were installed last week by George McKim, left, honorary member of the club and past district governor. To his left are Jess Adkins, treasurer; Lt. Joe Tetrault, vice president; Les Cox, secretary; Dan McCarthy, educational chairman, and Harold Gunn, sergeant-at-arms. Not shown is Nate Wineberg, deputy governor.



Dr. Clarence N. Hickman, 1400, is shown with the six goals he shot at the National Archery Tournament held in Lancaster, Pa., last year. Dr. Hickman was awarded the six-goal pin for this feat.

## PAGE SIX



"We gave up the lawn, put up some boards; makes a swell sand box for the kids."

## What Is Your Opinion? If You Were to Retire Tomorrow, How Would You Use Your Time?

CLAUDIA SANGSTER, 1112 at West Lab. I've always been pretty fond of Mexico



and considering the if's, sufficient funds, etc., I think I would go down there and get a small place and spend my time horseback riding and reading in the

EDWARD DEAN HEATH, 2465 at West Lab. I'd buy a small ranch,

probably in the Pecos country or Colorado where there's lots of grass and water. I'd get a couple of good horses, and then I would have myself a good time.

KAY THOM, 4212. I would go to Santa Fe. I know just the house I'd



Classified advertisements to be published in THE BULLETIN must be received in writing in the BULLETIN office at least one week prior to publication date. Classi-fied advertisements cannot be taken over the telephone. Include your name and your Base extension number. build and just the right spot where I'd have the gor-

geous view of Santa Fe. I would FOR SALElive there the year

town. Have a

small farm with

and a car, of

summer I would

like to travel, say

Hawaii one sum-

mer, Mexico an-

money

Every

enough

course.

other.

SANDIA BULLETIN

## **Bowling Leagues**

INDIAN LEAGUE Team Mohawks Zuni Crees Potawatomi Navajo Hopi Apaches Commanches Won Lost

25 34 44 52 57 62 77 . . 23 Team and Individual High team, three games, Hopi, 2636 Second high team, three games, Crees,

555 High team, one game, Mohawks, 938 Second high team, one game, Hopi, 920 High individual, three games, Hess, 609 Second high individual, three games,

Culley, 604 High individual, one game, Culley, 275 Second high individual, one game, Lew, 241

241 **Top 10 Averages** Duffield, 174; Whitney, 169; Mills, 168; Nogle, 167; Northrup, 164; Palmer, 162; Priore, 162; Gray, 161; Gasta, 161; Hasse-brock, 160; Leonard, 160; Parsons, 160; Rob-ertson, 159; Horne, 159; Schaap, 159; Mal-ley, 15; Showers, 159; Baumgartner, 159; Brewster, 158; Redburn, 158, and Deutsche, 158

## MAJOR LEAGUE

	Team		Won	Los
1.	Browns		64	40
2.	Senators			48
3.	Red Sox			48
4.	White Sox		51	53
5.	Indians		49	51
5.	Yankees	х	47	53
7.	Athletics			59
8.	Tigers			60

#### Team and Individual

High team, three games, Indians, 2593 Second high team, three games, Yankees,

2564 High team, one game, Tigers, 927 Second high team, one game, Red Sox,

913 High individual, three games, Gasta, 640 Second high individual, three games, Rowe, 604 High individual, one game, Gasta, 255 Second high individual, one game, Rowe, 246

## Top 10 Averages

Rowe, 175; Fink, 172; Redburn, 169; Gasta, 169; Nogle, 167; Palmer, 166; Rice, 164; Pagenkopf, 164; Sylvestre, 162; Repetti, 162; Brown, 161; Arterburn, 160; Hoge, 160, and Saylor, 159.

#### INSECT LEAGUE

		Won	
	Scorpions	67	41
2	Centipedes	.67	41
	Fireflies	62	46
	Lady Bugs	.54	54
č.	Roaches		54
2	Black Widows	.47	61
	Beetles	.46	62
	Hornets	.35	73

## Team and Individual

High team, three games, Centipedes, 2112 Second high team, three games, Fireflies,

High team, one game, Centipedes, 745 Second high team, one game, Scorpions, High individual, three games, J. Partch,

Second high individual, three games, Valker, 522 High individual, one game, Fink, 229 Second high individual, one game,

#### Partch, 203. Top 10 Averages

Walker, 155; Fink, 149; Partch, 147; Friz-zel, 140; Schultz, 139; Drake, 138; Brown, 137; Dixon, 136; Brewster, 136; Hahn, 134; Parsons, 128, and Buchanan, 128.

When driving in residential areas slow down and be on the lookout for youngsters on tricycles, roller skates, scooters and coaster wagons. Take the time to drive with care.

Lock up all classified material when it is not being used.

## Classified

Robert M. Officer, ext. 25256 or see at 612 N. Spruce, Alb. 7212. 14 foot steel boat and Martin 60 outboard motor, both in good condition, \$225. Joe Duran, ext. 6241.

Dishwasher attachment for Thor Automagic washer, like new, \$40. Doc Savage, ext. 29150 or see at Apt. 3242A on A Street, Sandia Base.

# **Bowling League Champions**



THE MOHAWKS OF THE INDIAN LEAGUE will be league champions after they have bowled two more evenings. Far out in front, they have the top spot cinched. Seated is P. J. Priore, 1251, team captain. Standing, left to right, are C. C. Whitney, 1211, and H. M. Macneill, C. P. Glaese, I. S. Schaap, T. T. Robertson, and C. S. Wolowicz, all of 1251. Chester Wolowicz is not a member of the playing team, but is a loyal rooter who appeared for almost every game the team bowled.



FOOTBALL LEAGUE BOWLING CHAMPIONS of Sandia Corporation, The Red Skins, are pictured here wearing the smile of victory. Seated is Cecil H. Johnson, 1251, team captain. Standing, left to right, are Fred Eichert, 1251, Randy Parsons, 1251, Art Eiffert, 1211, Vince Melillo, 1251, and Barney Spohr, 1251.





round, but I'd spend at least four 2-week periods out of the year

elsewnere-one in New York and one in Chicago and the other two in San Francisco to hear music and opera, or whatever happened to be going on. I want to learn to polish and cut semiprecious gems and I also want to write, preferably on politics-that's how I'd spend a part of my time.

MELVIN N. PLINER, 2221. Since I have a new 1951 Pontiac, I

would in all probability do as much fishing and hunting as I Then I could. would like to travel around the country and see such sights as the Grand Canyon. I

would like to build a cabin somewhere close to a lake and I would like to have a woodworking shop there. Then, I would look around for a girl that enjoys the same things in life as I do and get married and just live a leisurely life.

Hollywood style full size bed with box-springs and innerspring mattress, head board, almost new. Cost \$90, will sell for \$50. May be seen at 3225 34th, Apt. W, W. M. Jobe, ext. 21168.

JOHN L. VEENEMAN, 2432 at West Lab. Oh Boy! I'd go up to El

JO ANN LOHNER, 3153-1. think I would settle down in a little

Vado right now

nd go fishing.

Since the season

pened, that's

been one desire. Then, when I'm

not fishing, I'd be

unting.

Equity in one of two choice lots in Sandia Manor. 85 mile panoramic view. Mar-garet C. Sylvanus, ext. 21238.

Four 710-15 white sidewall tires, less than 2,000 miles. H. F. Ward, ext 5255 or see at 4501 North Richmond.

1950 Chevrolet 2-door deluxe, 13,000 miles, \$1,545. R. L. Brin, ext. 28142.

1948 Chrysler, club coupe, Hilander model, good tires and heater, motor A-1. Call 5-3905 after 5:30 p.m. or see at 2202 Hendola Dr., Inez Addition.

Remington Dual Head Electric Razor, \$12; Universal Auto Sun Visor, \$10; AC Oil Filter, \$4; 16 Ga. Pump Shot Gun with 4 boxes shells, \$35; 12 ft. x 21 ft. Lt. Wt. Canvas Car Cover, \$12; Garden hose reel, \$1.50. R. J. Hansen, ext. 23182, 3360 48th Loon

Buick Rivera late 1950, 2-door super sedan with Dynaflow, radio, heater, side mir-rors and all custom equipment including undercoating and white side-wall tires. Color, two-tone green. 4,000 miles, cost \$3,100; sacrifice \$2,450. Will trade. W. O. Smitha, ext. 21186 or 25136.

Floral drapes, beige background, two matching pair, \$5 pr. W. O. Smitha, ext. 2118

1948 Oldsmobile Six, deluxe, hydromatic, clean, low mileage. Will trade. D. L. Collins, ext. 23149 or see at 814 S. Cagua Dr., next to San Pedro.

Motorcycle, 1949 Harley Davidson, model 125 with extras. Good condition, \$135. Ted Gourd, ext. 7238 or Alb. 3-1645 after 5:30 p. m. 909/4 N. 13th.

**One fireplace screen**, self supporting, 38%" x 31%", \$10; one fireplace grate, for coal or wood, 22" x 12", \$4; one boy's desk, maple finish, \$20; one boy's 24" bicycle, \$10.

1949 Chevrolet De Luxe Styline four door sedan, Sea Foam Green, deluxe radio and heater, new tires, nylon seat covers. Looks and runs like new, reasonable. Joe Hickey, ext. 26149 or see at 2133 N. Dickason (in Inez Addition).

Baby bed and inner spring mattress. Jim Lossing, ext. 5255 or Alb. 3-0646 or see at 4520 N. 8th St.

Bush and Gertz upright piano, beautiful tone, reasonable. Mrs. Hull, ext. 22139 from 8 to 5 and 5166 evenings or see at 1810-18th Loop.

## WANTED-

Boy living in vicinity of 2706 Haines Ave., to do lawn work at that address; both sprinkling and mowing. Margaret C. Syl-vanus, ext. 21238 or inquire evenings 2706 Haines Ave.

Garage or room to rent for storage of small quantity of non-inflammable material. J. V. Durant, ext. 29272.

## FOR RENT-

Room for one or two people, kitchen privi-leges or board if desired. Nancy Brush, ext 29246 or Alb. 8563, 511 S. Girard, Apt. K.

**Three bedroom house**, stove and refrigera-tor, paved patio, completely landscaped yard, near schools and shopping center, 4100 Ridgeley Drive. Kay Flood, ext. 25141 days or 28279 evenings.

## RIDERS WANTED-

Vicinity of Mackland Dr., and Carlisle, two or three riders. Mel Pliner, ext. 26159.

RIDE WANTED-

Vicinity of Eighth and Roma. Ruth Cox, ext. 21249 or Alb. 6914.

5023 N. 12th St. for two people to Sandia Base. Ruby Groll, ext. 5137 or Alb. 3-0513.

TOF JUNGLE LEAGUE BOWLING TEAM, The Wildcats. Roy Stradford, 2113, captain, is seated and standing, left to right, are Bob McClendon, 2112, Dick Marmon, 2242, Ben Jolliffe, 2112, and Lyle Hake, 1623.

## ATTENTION ALL BOWLERS

Sandia Corporation and AEC personnel interested in bowling in a summer league are requested to fill out the following questionnaire and return it to M. L. Heineken, 1513; Carl Frantz, 1521, or J. L. Rowe, West Lab.

This information should be supplied as soon as possible so that leagues can be formed and arrangements for available alleys made. Specify your choice of alleys, but leagues will operate where alleys are available. Nights available will most likely be Tuesday, Wednesday or Thursday.

Name	
Address	•
Phone No Avg. (if known)	Alleys : Chaplin
Night preferred	Coronado Club
	Sport Bow1